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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/471,287	12/23/1999	MAKOTO MIYAGI	0557-4877-2 7229		
	7590 06/16/2004		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			BRINICH, STEPHEN M		
	A, VA 22314		ART UNIT PAPER NUMBER		
			2624	P 1	
			DATE MAILED: 06/16/2004	6/	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)			
Office Action Summary				MIYAGI, MAKOTO			
		09/471,28	<i>T</i>				
		Examiner		Art Unit			
	The MAILING DATE of this communication	Stephen M		2624			
Period fo		on appears on the	Cover Sneet with the c	orrespondence dualess			
THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR A MAILING DATE OF THIS COMMUNICAT asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) day operiod for reply is specified above, the maximum statutory or to reply within the set or extended period for reply will, by reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CION. CFR 1.136(a). In no everion. s, a reply within the statu period will apply and will y statute, cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed on	25 March 2004.					
·	•	This action is no	on-final.	•			
,—	Since this application is in condition for a			secution as to the merits is			
-,_	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4) □ 5) ⋈ 6) ⋈ 7) □ 8) □ Applicati	Claim(s) 1-34 is/are pending in the application of the above claim(s) is/are with the above claim(s) is/are with the above claim(s) 2-4,6-12,14-16,18-24 and 27-34 Claim(s) 1,5,13,17,25 and 26 is/are rejected is/are objected to. Claim(s) is/are objected to restriction are subject to restriction is con Papers	ithdrawn from cor 4 is/are allowed. cted. and/or election re					
-	The specification is objected to by the Ex		_				
10)[The drawing(s) filed on is/are: a)[•					
	Applicant may not request that any objection						
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to by						
Priority (under 35 U.S.C. § 119						
a)l	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Elee the attached detailed Office action for	uments have beer uments have beer e priority docume Bureau (PCT Rule	n received. n received in Applicati nts have been receive e 17.2(a)).	on No ed in this National Stage			
Attachmen							
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-9		4) Interview Summary Paper No(s)/Mail Da				
3) Infon	mation Disclosure Statement(s) (PTO-1449 or PTO) er No(s)/Mail Date			Patent Application (PTO-152)			



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APPLICATION NO./	FILING DATE	FIRST NAMED INVENTOR /	ATTORNEY DOCKET NO.
CONTROL NO.		PATENT IN REEXAMINATION	

EXAMINER

ART UNIT PAPER

11

DATE MAILED:

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Commissioner for Patents

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Paper #10: page 13, line 18 page 14, line 10, filed 25 March 2004, with respect to the
rejection(s) of claim(s) 1, 5, 13, 17, 25, & 26 under 35 USC
\$102(a) have been fully considered and are persuasive.
Therefore, the rejection has been withdrawn. However, upon
further consideration, a new ground(s) of rejection is made
under 35 USC \$112.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1, 5, 13, 17, 25, 26 are rejected under 35
U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "cutting off corners of each of only single corner square cells facing each other" (claim 1, lines 2-3; claim 5, lines 2-3; claim 13, lines 2-3; claim 17, lines 2-3; claim 25, lines 2-3; and claim 26, lines 2-3) is unclear as to

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which corners and which square cells (the phrase "single corner square cells" is a contradiction in terms) are referenced.

Examiner's best interpretation is that the phrase refers to cutting off one (and only one) corner of each of a defined group of mutually facing square cells.

Claim Rejections - 35 USC § 102

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1, 5, 13, 17, 25, & 26 are rejected under 35
 U.S.C. 102(a) as being anticipated by Applicant's admitted Prior
 Art.

Re claims 1, 5, 13, 17, 25, & 26, Applicant's admitted

Prior Art (Figures 8B, 8C, 9A, 12) discloses a halftone screen

in which the halftone dot cells are formed by cutting off one

facing corner of each of two mutually facing square halftone

threshold matrices to form non-regular hexagonal threshold

matrices and combining sets of the resulting hexagonal matrices

into a halftone cell.

Allowable Subject Matter

- 6. Claims 2-4, 6-12, 14-16, 18-24, & 27-34 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter:

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Re claims 2, 6, 14, & 18 (and dependent claims 4, 8, 16, & 20), the art of record does not teach or suggest the recited threshold value arrangements (wherein a distance between respective threshold value setting start pixels in adjacent halftone cells is made as equal as possible) in conjunction with a halftone matrix formed by cutting off facing corners of square halftone threshold matrices to form non-regular hexagonal threshold matrices and combining sets of the resulting hexagonal matrices into a halftone cell.

Re claims 3, 7, 15, & 19, the art of record does not teach or suggest the recited threshold value arrangements (set threshold values for each of the hexagonal cells constructing a single halftone cell are not the same) in conjunction with a halftone matrix formed by cutting off facing corners of square halftone threshold matrices to form non-regular hexagonal threshold matrices and combining sets of the resulting hexagonal matrices into a halftone cell.

Re claims 9, 21, 27, 29, 31, & 33 (and dependent claims 10-12, 22-24, 28, 30, 32, & 34), the art of record does not teach or suggest the recited division of hexagonal cells that are combined into a halftone matrix formed by cutting off two facing corners of square halftone threshold matrices to form non-

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regular hexagonal threshold matrices and combining sets of the resulting hexagonal matrices into a halftone cell.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Brinich at 703-305-4390. The examiner can normally be reached on weekdays 7:00-4:30, alternate Fridays off.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center 2600 Customer Service center at 703-306-0377.

If attempts to contact the examiner and the Customer Service Center are unsuccessful, supervisor David Moore can be contacted at 703-308-7452.

Faxes pertaining to this application should be directed to the Tech Center 2600 official fax number, which is 703-872-9306.

Stephen M Brinich Examiner Art Unit 2624

smb **Sw** June 10, 2004

HOMAS D.

TEMEN LEE
PRIMARY EXAMINER